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Basic concepts and properties of algebra are introduced early to prepare students for equation solving. Multiple representations of concepts help students make the math connections and develop conceptual understanding.

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Prentice Hall Mathematics: Algebra 1 Kentucky Teacher's Edition

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Grade
8, 9, 10, 11, 12

TYPE
P1

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Author
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Edition
4th

Content
Algebra 1

Readability
880L

Accessibility
Nimas

Research
http://www.pearsonschool.com/index.cfm?locator=PSZ3Wu

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ISBN 0133685411	Publisher - **Pearson Education, Inc., publishing as Prentice Hall**		
Prentice Hall Mathematics: Algebra 1 Kentucky Student Edition			
Type - P1	Author - Kennedy et al.		
Copyright - 2009	Edition - 4th	Readability - 880L	
Course - Algebra 1		Grade(s) - 8, 9, 10, 11, 12	
Teacher Edition ISBN if applicable 0133685470			

Provided by the Publisher

Overall Recommendation: **Recommended as BASAL**

if this box is not checked, the evaluators have chosen NOT recommend as basal

Overall Strengths, Weaknesses, Comments:

The text covers all the POS content for Algebra 2. The book is well organized and provides support to the instructor for ESL, differentiation, and students with learning difficulties. There is also free web support for the students. There are integrated activities and assessments throughout the text. There is also a special section at the beginning of the text with exercises in all DOK levels for each chapter.

NIMAC Accessibility	N	
Ancillary	No	
Free with Purchase	Yes	
Research	Yes	http://www.pearsonschool.com/index.cfm?locator=PSZ3Wu

Basic concepts and properties of algebra are introduced early to prepare students for equation solving. Multiple representations of concepts help students make the math connections and develop conceptual understanding.

CRITERIA

This basal resource …

A. Encompasses KY Content Standards & Grade Level Expectations **Strong Evidence**

Text is designed to be used in an elective course outside the Program of Studies

1) Includes the 5 Big Ideas of mathematics to the following extent:	
a) Number Properties and Operations	Strong Evidence
b) Measurement	Strong Evidence
c) Geometry	Not Applicable
d) Data Analysis and Probability	Strong Evidence
e) Algebraic Thinking	Strong Evidence
2) Addresses content-specific enduring understandings from the related Program of Studies standards.	Strong Evidence
3) Addresses content-specific skills and concepts from the related	Strong Evidence

Program of Studies standards.

4) Content addressed is current, relevant and non-trivial	Strong Evidence
5) Provides opportunities for critical thinking/reasoning	Strong Evidence

6) Strengths, Weaknesses, Comments:

- Specific strengths-which areas/concepts are covered exceptionally well?
- Specific weaknesses-which areas/concepts would likely require supplementing?

The textbook covers the POS content for Algebra 1 class. The students are provided with different type of problems and opportunities for higher-level thinking. All the information is current and relevant.

B. Functionality & Suitability — Strong Evidence

1) Suitability — **Strong Evidence**

- Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.

2) Content quality — **Strong Evidence**

- Free from factual errors
- Content is presented conceptually when possible—more than a mere collection of facts
- Content included accurately represents the knowledge base of the discipline
- Theories/scientific models contained represent a broad consensus of the scientific community
- Interconnections among mathematical topics

3) Connections to Literacy — **Strong Evidence**

- Employs a variety of reading levels and is grade/level appropriate
- Use of multiple representations-concrete, visual/spatial, graphs, charts, etc.
- Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles.
- Student text provides opportunity to integrate reading and writing
- Uses vocabulary that is age and content appropriate
- Focuses on critical vocabulary vs. extensive lists
- Identifies key vocabulary through definitions in both text and glossary
- The text is engaging and facilitates learning
- Embedded activities enhance the understanding of the text
  Note: may apply to either student or teacher editions

4) Connections to Technology — **Strong Evidence**

- Integrates technology and reflects the impact of technological advances
- Uses technology in the collection and/or manipulation of authentic data
- Embeds web links as a mathematics resource.

5) Support for Diverse Learners — **Strong Evidence**

- Provides support for ESL students
- Provides support for differentiation of instruction in diverse classrooms
- Challenge for gifted and talented students
- Support for students with learning difficulties
  Note: may apply to either student or teacher editions

6) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The text provides support for ESL, students with learning difficulties and differentiation. The text is written on an age appropriate reading level. It incorporates activities and real-world problems that allow for a variety of learning styles and multiple levels of difficulties. There are screen shots for calculator use and explanations given in the technology guide in the back of the book. There is a dedicated math website included and links provided in the text directing the students to further help should they need it.

C. Supports Inquiry and Skill Development — Strong Evidence

1) Promotes Inquiry, research and Application of Learning — Strong Evidence

- Provides opportunities for inquiry and research that includes activities such as gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions, formulating authentic questions to deepen and extend mathematical reasoning.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, generalizing, justifying, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, number lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.
  Note: may apply to either teacher or student edition

2) Skill Development — Strong Evidence

- Provides opportunities to make sense of all mathematics
- Provides opportunities to recognize, create, and extend patterns.
- Provides opportunities for critical thinking and reasoning.
- Provides opportunities to justify/prove responses.
- Provides opportunities to ask deeper questions.
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving
  Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

There are opportunities to write about the mathematics, thus extending the students knowledge.

Activity labs allow for students to become involved in the learning. There is a special section with differing DOK questions in the front of the student text for practice on all levels. There are interdisciplinary connections made between the topic and careers in differing fields

D. Supports Best Practices of Teaching and Learning **Strong Evidence**

1) Engages Students Strong Evidence

- Includes content geared to the needs, interests, and abilities of all students
- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated
  Note: may apply to either teacher or student edition

2) Uses Assessment to Inform Instruction Strong Evidence

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels
  Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

There are various activities including writing, data gathering, and real-life situations that involve technology. There are a variety of strategies used to engage the students. There are many exercises of varying DOK levels. There are quizzes, test prep, and chapter tests included. There are assessment differentiation ideas and links to resources in the teacher edition.

E. Has an Organization/ Format that Supports Learning and Teaching **Moderate Evidence**

1) Organizational Quality Strong Evidence

- Print and/or electronic materials present minimal barriers to learners, but also add encouragement for students to stretch and make further explorations.
- Presents chapters/lessons in an organized and logical sequence
- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components, interactive software, calculators, physical and virtual manipulatives) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.

- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size
- Included media are durable, easy to use and have technical merit
- Construction appears to be durable and able to withstand normal use

2) Essential Components (beyond student and teacher text) Little or No Evidence

- Items identified as essential components support the learning goals and concept coverage of the basal

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The text is user-friendly with highlighted vocabulary words, clearly illustrated examples, objectives for each section, and headings for the word problems. There is a math website available for support as well as a technology guide in the back of the text. The reading level is grade level appropriate. There are no components beyond the teacher and student editions.

F. Has available Ancillary/ Gratis Materials

Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F

Strong Evidence

1) Ancillary/Gratis Materials

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving
- Provides opportunities for intervention.

2) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The ancillary materials include presentation software, QuizShow CD, Teacher Online Access Pack and Teacher Express CD for planning, Teaching and assessment. The transparencies materials include review problems, lesson quizzes, classroom resources, extra problems, and solutions to the text problems. There is Spanish version with step-by-step problem solutions. The materials include All-in-One student workbook with two different versions.